

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Sunova Solar Technology Co., Ltd.

Building H, Phase II, Standard Workshop, Runzhou Road, Huishan Industrial Transformation and Agglomeration Area 214115 Wuxi, Jiangsu Province, P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2022-07-06

Valid until: 2027-07-05

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC / EN 61215-1:2016; IEC / EN 61215-1-1:2016; IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018; IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018; IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.
Registered No.:	44 780 22 406749 - 139
Manufacturer:	see Annex 1
Test Report No.:	492012081.001
File No.:	PVP05065/22P-01



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Consumer Products



Essen, 2022-07-06

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer : **Sunova Solar Technology Co., Ltd.**
Building H, Phase II, Standard Workshop, Runzhou Road, Huishan
Industrial Transformation and Agglomeration Area 214115 Wuxi, Jiangsu
Province, P.R. China

Factory inspection report no.: 862010664.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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Description of product(s):

Module types:	PV Modules with Mono-crystalline Silicon Solar Cells (156.75mm to 158.75mm) 72 cells: SS-xxx-72M (xxx = 330-385, in increment of 5) 60 cells: SS-xxx-60M (xxx = 275-320, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	PV Modules with Mono-crystalline Silicon Half-cut Solar Cells (158.75mm to 166mm) 144 cells: SS-xxx-72MD (xxx = 390-415, in increment of 5) 120 cells: SS-xxx-60MD (xxx = 325-345, in increment of 5) 144 cells: SS-xxx-72MD (xxx = 420-450, in increment of 5) 120 cells: SS-xxx-60MD (xxx = 350-375, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	15A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	PV Modules with 182mm Mono-crystalline Silicon Half-cut Solar Cells 156 cells: SS-xxx-78MDH (xxx = 565-595, in increment of 5) 144 cells: SS-xxx-72MDH (xxx = 520-555, in increment of 5) 132 cells: SS-xxx-66MDH (xxx = 480-505, in increment of 5) 120 cells: SS-xxx-60MDH (xxx = 435-460, in increment of 5) 108 cells: SS-xxx-54MDH (xxx = 395-415, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	25A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Module types:	PV Modules with 210mm Mono-crystalline Silicon Half-cut Solar Cells 132 cells: SS-xxx-66MDH-G12 (xxx = 640-670, in increment of 5) 120 cells: SS-xxx-60MDH-G12 (xxx = 585-605, in increment of 5) 108 cells: SS-xxx-54MDH-G12 (xxx = 525-545, in increment of 5) 96 cells: SS-xxx-48MDH-G12 (xxx = 465-485, in increment of 5) 84 cells: SS-xxx-42MDH-G12 (xxx = 405-425, in increment of 5) 110 cells: SS-xxx-55MDH-G12 (xxx = 530-555, in increment of 5) 100 cells: SS-xxx-50MDH-G12 (xxx = 480-505, in increment of 5) 90 cells: SS-xxx-45MDH-G12 (xxx = 430-455, in increment of 5) 80 cells: SS-xxx-40MDH-G12 (xxx = 390-400, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	30A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)



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Module types:	PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells 150 cells: SS-xxx-75MDH-G12 (xxx = 485-510, in increment of 5) 120 cells: SS-xxx-60MDH-G12 (xxx = 385-405, in increment of 5)
Maximum system voltage:	1500V
Fuse rating:	20A
Electrical protection class:	Class II
Pollution degree:	1
Material group:	I
Design load (positive / negative):	3600Pa / 1600Pa
Safety factors:	1.5
Fire safety class:	Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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